



GOVERNMENT OF KERALA  
DIRECTORATE OF MEDICAL EDUCATION  
DIPLOMA IN DENTAL HYGIENIST COURSE  
REGULAR & SUPPLEMENTARY EXAMINATIONS APRIL 2024

DCDH-F-I-APR-2024

Time : 3 hrs.

Part I - Paper –I

Max.marks : 75

ANATOMY, PHYSIOLOGY & HISTOLOGY

(Answer all questions & Draw diagrams wherever necessary. Answer Section A & B separately)

**SECTION -A**

**I. Essay**

- a. Describe the temporomandibular joint (10)  
b. Describe the epithelium under the following headings: (10)  
    a. Classification    b. Examples of each    c. Write briefly on Glandular epithelium.

**II. Write briefly on :** (3x5=15)

- a. Veins of face  
b. Muscles of Mastication  
c. Parotid gland

**III. Write short notes on :** (5x3=15)

- a. Layers of scalp  
b. Skeletal muscle  
c. Maxilla  
d. Medium sized artery  
e. Hyaline cartilage

**SECTION – B**

**I. Write short notes on:** (5x4=20)

- a. Regulation of stroke volume  
b. Functions of saliva  
c. Ovarian cycle  
d. Coagulation of blood  
e. Cerebellum

**II. Answer the following:-** (5x1=5)

- a. Normal haemoglobin content of blood  
b. Normal blood pressure  
c. Name the functional unit of skeletal muscle  
d. Name the hormones secreted by the adrenal medulla  
e. Name the chief muscle of inspiration

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DCDH—F-II-

APR-2024

Time : 3 hrs.

Part I – Paper II

Max.marks : 75

PHARMACOLOGY, PATHOLOGY, MICROBIOLOGY & ORAL PATHOLOGY

(Answer all questions & Draw diagrams wherever necessary.  
Answer Section A,B,C & D separately)

**SECTION A**

- I. Classify antiepileptic drugs. Mention 2 uses and 2 adverse effects of Phenytoin (6)
- II. Classify Penicillin. Mention 2 uses and 2 adverse effects of Penicillin (6)
- III. Write short notes (6x2=12)
- |                     |                 |
|---------------------|-----------------|
| a. Bio availability | b. Lignocaine   |
| c. Dentifrices      | d. Azithromycin |
| e. Pantoprazole     | f. Heparin      |
- IV. Name the following (6x1=6)
- |                      |   |
|----------------------|---|
| a. Two antiemetics   | b. Two potassium sparing diuretics      |
| c. Two antifungals   | d. Drug of choice in anaphylactic shock |
| e. Two beta blockers | f. Two drugs given transdermal route    |
- V. Mention two important adverse effect and one important use of the following (4x 1½ =6)
- |               |               |
|---------------|---------------|
| a. Gentamycin | c. Aspirin    |
| b. Atropine   | d. Quinolones |

**P.T.O**

## SECTION B

- I. a. Define neoplasm. Describe routes of Spread of malignant tumour. Mention ONE premalignant lesion of oral cavity (1+3+1=5)
- II. Write short notes on : (4x2=8)
- a. Factors affecting wound healing
  - b. Vitamin A deficiency
  - c. Granulomatous inflammation
  - d. Oral Candidiasis

## SECTION C

- I. ESSAY:-
- a. Briefly discuss the pathogenesis, clinical features, laboratory diagnosis & treatment of HIV infection. (7)
- II. Write short notes on:- (2x3=6 )
- a. Carrier
  - b. Normal flora of mouth

## SECTION D

- I. Enumerate the benign and malignant neoplasms affecting oral cavity. Discuss in detail the clinical and pathologic features of oral squamous cell carcinoma. (5)
- II. Write Short notes : (4x2=8)
- a. Differences between deciduous and permanent teeth.
  - b. Cemento-Enamel junction.
  - c. Define and classify oral mucous membrane.
  - d. Gingival enlargement.

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Time : 3 hrs.

Part I - Paper –III

Max.marks : 75

FOOD AND NUTRITION & RADIOLOGY

(Answer all questions Section A & B separately and draw diagrams wherever necessary)

**SECTION –A**

1. Write the sources, RDA, biochemical functions and deficiency manifestation of Vitamin A (1+1+7+6=15)
2. Write Short notes on (5x5=25)
  - a. Regulation of serum calcium
  - b. Classification of lipids
  - c. GTT (Glucose Tolerance Test)
  - d. Functions of albumin
  - e. Fate of bilirubin in the body
3. Answer Briefly (5x2=10)
  - a. Classification of Diabetes Mellitus
  - b. Dietary fibers
  - c. Glucose transporters
  - d. Physiological Jaundice
  - e. Fluorosis

**SECTION B**

1. Describe the X-ray machine. Discuss the components in details (10)
2. Short notes: (3x5=15)
  - a. Intensifying screen
  - b. X-ray films used in dental radiology
  - c. Composition of fixer and developing solution

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DCDH-S-I-APR-20224**

Time : 3 hrs.

Part II - Paper –I

Max.marks: 75

DENTAL HYGIENE AND ORAL PROPHYLAXIS  
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION - A

- I. Define gingiva. Describe the clinical features and microscopic features of normal healthy gingiva (2+8+10=20)
- II. Write short notes on: (3x5=15)
- a. Properties of biofilm
  - b. Functions of periodontal ligament
  - c. Gingival bleeding

SECTION –B

- III. Define calculus. Classify and describe in detail different types of calculus, theories of calculus formation, clinical assessment of calculus, modes of attachment of calculus and role of calculus in periodontal disease. (2+5+3+4+4+2=20)
- IV. Write short notes on: (4x5=20)
- a. Cleaning and polishing instruments
  - b. Universal precautions
  - c. Classification of cementum
  - d. Ultrasonic scaling

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Time : 3 hrs.

**Part II - Paper –II**

Max.marks: 75

**DENTAL HEALTH EDUCATION, PUBLIC HEALTH & PREVENTIVE DENTISTRY**  
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION – A

- I. Discuss in detail about the levels of prevention of dental caries (20)
- II. Write short notes on : (3x5=15)
- a. Elements/ components of school dental health program
  - b. Types of tooth brushes
  - c. Principles of health education

SECTION – B

- I. Classify pit and fissure sealants. Write in detail about the indications, contraindications and steps in the procedure of application of sealants (2+4+4+10=20)
- II. Write short notes on: (4x5=20)
- a. Balanced diet
  - b. Tongue thrusting habit
  - c. Medical Negligence
  - d. Disclosing agents

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Time : 3 hrs.

Part II - Paper –III

Max.marks: 75

DENTAL MATERIALS, DENTAL ETHICS AND JURISPRUDENCE ORIENTATION IN  
DENTISTRY

(Answer Section A & B separately and draw diagrams wherever necessary)

**SECTION –A**

- I. Classify Direct Filling Gold. Write the advantages and disadvantages of direct filling gold? (8+1+1=10)
- II. Define dental composite. Write in detail on the composition of dental composite? (10)
- III. Write short notes on: (3x5=15)
- a. Instruments needed for amalgam restoration
  - b. Types of zinc oxide eugenol cement
  - c. Classify root canal instruments.

**SECTION B**

- I. Classify Impression materials. Discuss the composition, manipulation, setting reaction and properties of Addition Silicone impression material. (10)
- II. Discuss the composition and properties of Gypsum Bonded Investments. (10)
- III. Write short notes on (4x5=20)
- a. Classify Gypsum products. Add a note on Dental Stone
  - b. Define Ethics. Discuss the Ethical principles of Autonomy and Justice
  - c. Waxes used in dentistry
  - d. Heat Cure Acrylic Resin

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